



10lb MVER/90% *insitu* RH Resilient Flooring Adhesive *Hybrid* Pressure Sensitive

Product Information

Product Description

Hydro-Seal MAXX is the latest development in our moisture resistant adhesive line offering a new standard in 10lb MVER/90%RH moisture resistance. MAXX is high solids, formulated to meet REACH European environmental standard, CHPS low odor indoor air quality standards (IAQ 01350) and contribute LEED.

This unique adhesive is not affected by exposures to high levels of concrete moisture. In fact, MAXX can handle submersion in concrete pore water at pH12.5 for over 2wks without loss of adhesive properties. No other competitive adhesive tested has lasted more than 72hrs! (Except for one, Aquaflex)

MAXX is non-flammable, formulated with sustainable materials and "0" VOC. Once cured, the elastomeric properties provide a tough, hard yet flexible bond to multiple substrates and will act to impart support to the flooring material under heavy traffic loads.

MAXX has a working viscosity that will hold to the trowel. The adhesive will grab after approx 30min set time like a pressure sensitive adhesive. Some limited movement of tile is possible. Edge lift of tile will not occur unless some un-natural dimensional property in the flooring exists. For this matter all rolled sheet goods should be allowed appropriate time to relax tensions and care should be taken to insure concrete surface is flat, smooth and void of surface imperfection.

MAXX is formulated as a true "HYBRID" adhesive. This type of adhesive formulation was innovated by Formulator's over 10yrs ago as the answer to resilient flooring installation (solid vinyl and LVT). Hybrid adhesives exhibit pressure sensitive grab after 30min of flash time yet are still partially wet. Setting tile in this partial wet state allows maximum surface penetration of resilient tile. The adhesive once cured is hard with 300% higher bond strength than typical thin-sets. Installed like any sheet vinyl adhesive, its fast, flexible curing permits extended working time, as well as foot traffic in five hours.

Surface Preparation

It is necessary to conduct proper moisture evaluations prior to installation per ASTM F1869, F710 and F2170 respectively, in order to determine vapor emission rate, pH and %RH for warranty consideration. Always consult technical advise prior to installation. Every concrete substrate is unique. Practice 'clean as you work' methods.

All concrete surfaces must be mechanically prepared prior to adhesive application per ASTM F710. Level, firm, dry, smooth and free of dust, dirt, wax, cut-back, paint, grease, oil, curing agents, mold, bond breakers, residual alkaline salts, densifiers, hardeners or any other foreign material that would inhibit bond. Use only mechanical methods to clean existing sub-floor. Fill cracks, holes, and depressions using only materials designed for this intended purpose such as Aquaflex Crack Repair. **Never use adhesive to fill large cracks, expansion joints or saw cuts.**

The installation area should be acclimated to at least 60°F for 24 hrs prior, during and 72 hrs following the installation procedure. Do not install if temperature exceeds 85° F.

To insure porosity it is required that the floor achieve CSP 1 by ICRI standard. The surface will have a texture like 220grit sandpaper. The method recommended to achieve this surface profile is by active planetary diamond-bit grind technique. **Skim coat with Aquaflex Patch Mix all areas that are ground by hand.** DO NOT OVER WATER SKIM COAT, absorption of adhesive and loss of bond due to weak skim may result. Warranty will void.

Chemical & Physical Properties

Base:	Proprietary
Color:	White
Solids:	>80%
Density:	9.7lbs/gal
Flammability:	Nonflammable
VOC:	0g/l, calculated
Application:	See Instructions
Shelf Life:	One Year*

*From date of manufacture and stored in original, sealed container

Application

Acclimate all materials prior to beginning the installation process. Due to varying concrete substrate conditions it is always recommended that an adhesion test be performed prior to the installation process. Additionally, it is always good to refer to the flooring manufacturer on proper installation method. In cases of excessive moisture where skim must be applied, use an **exterior grade polymer modified mortar or Aquaflex Water-Proof Patch Mix**. Consult technical service for job specific recommendations.

By design one unit gives approx 700sf. Plan to install in 500sf working sections. This section size is easy to control within the given operating time. Never spread more adhesive than you can lay tile in the given 30min window. Apply adhesive until the pail is empty then switch to a new trowel edge on the next pail.

Wet-Set Application

Prepare all cut-outs ahead of time. Upon application allow adhesive to set approx 30min. Gently lay flooring into **wet adhesive** in a walk-on-work method. Adhesive will grab, however minimal movement of tile is possible. If tile is set early, insure against tile displacement laying MASONITE over work area. This will spread point load. A 30min working time for tile placement **must** be observed. **NEVER set tile in firm, clear adhesive, otherwise you must scrape and reapply.** Areas should be protected from light traffic for at least 5hrs.

Edge lift of tile or sheet should not occur unless some unnatural dimensional force creates curvature in the flooring substrate. If this happens weight the edge down sufficient to allow the adhesive time to grab. Do not leave gaps of adhesive at the edge line. Scrape off excess glue prior to moving on. This adhesive is **NOT VCT emulsion** and will close 75mins after application. Do not attempt to lay tile into adhesive after 60mins, remove and start over. After the 30min set, a 30min window exists to set the section. **All set and cure times provided are approximate and can vary with site and substrate condition.**

Roll flooring once, 30min after installation process with an articulated 100lb roller lengthwise, and then again at a right angle to the first line of direction per flooring manufacturer's instructions. **Caution: excessive rolling can create lippage with some rigid flooring products over less than smooth concrete.** Protect area from foot traffic for at least 5hrs and heavy rolling loads for 12hrs.

Adhesive should never be used as a strategy for leveling a concrete surface. Do not use adhesive to fill gaps, cracks or voids in the concrete.

As you work, immediately clean any adhesive from flooring.

Clean-Up & Storage

Store in a clean, dry, warm area to ensure ease of application. Shelf life is one year from the date of manufacture. Reseal partial containers. Uncured material is suitable for use.

NOTE: Cured adhesive can be cleaned by scrubbing with conventional solvent or warm soapy water. Practice 'clean as you work' methods. Call Customer Service if contamination results. Formulators provides a safe cleaner found effective on cured adhesive residue.

Curing

Set time:	30min
Cure suitable for foot traffic:	5hrs

Warranty

Formulators warrants Hydro-Seal free from defects in material and workmanship for a period of five (5) years when properly installed, and not to delaminate due to **moisture of 10lbs MVER and or 90%RH** as measured according to ASTM standards. Shelf life limited to one year from date of manufacture, stored in an unopened container at 70°F.

Formulators excludes and will not pay consequential or incidental damages under this warranty. All remedies shall extend to the replacement of finished flooring materials, labor and adhesive in affected areas only and as determined by Formulators. Formulators will not pay damages resulting from poor installation, loss of bond due to the dimensional characteristics of the flooring material, telegraphing of trowel marks through the flooring material, improper trowel selection or use, discoloration due to moisture, topically applied alkaline preparations, seam failures or voids, tears, rips, misapplied or residual curing compounds, residual mold release, improperly mixed leveling or patching compounds of any kind, improper preparation technique and any other condition beyond the control of Formulators and unrelated to the integrity of the adhesive.

For complete warranty information, see Formulators Performance Warranty.

Trowel Performance Data



Larger trowel notch recommended for "Action-Backed" carpet tile.



www.FormulatorsOnline.com